

Title (en)  
SURFACE REWINDER WITH CENTER ASSIST AND BELT AND WINDING DRUM FORMING A WINDING NEST

Title (de)  
OBERFLÄCHENAUFROLLER MIT MITTELUNTERSTÜTZUNG SOWIE BAND- UND WICKELTROMMEL IN FORM EINES WICKELNESTES

Title (fr)  
RÉENROULEUR DE SURFACE À ASSISTANCE CENTRALE ET COURROIE ET TAMBOUR D'ENROULEMENT FORMANT UN NID D'ENROULEMENT

Publication  
**EP 3717387 A4 20220112 (EN)**

Application  
**EP 18883038 A 20181126**

Priority  
• US 201762592103 P 20171129  
• US 2018062462 W 20181126

Abstract (en)  
[origin: US2019161302A1] A rewinding machine winds a web material into a log about a core. The web material to be wound is directed about a rotating winding drum. A continuous loop is spaced from the winding drum and with the winding drum defines a nip through which the core is inserted and through which the web material is directed. A surface of the continuous loop opposite the winding drum across the nip is configured to move in a direction generally opposite of the winding drum for winding the web material about the core. A rider roll defines a winding space with the winding drum and the continuous loop. The rider roll is movable relative to the continuous loop and the winding drum to allow for an increase in a diameter of the log in the winding space during winding of the web material about the core.

IPC 8 full level  
**B65H 19/22** (2006.01); **B65H 18/26** (2006.01); **B65H 19/00** (2006.01); **B65H 19/10** (2006.01); **B65H 19/12** (2006.01)

CPC (source: EP US)  
**B65H 18/023** (2013.01 - EP); **B65H 18/08** (2013.01 - EP); **B65H 18/10** (2013.01 - US); **B65H 18/20** (2013.01 - US); **B65H 18/26** (2013.01 - US); **B65H 19/2269** (2013.01 - EP US); **B65H 75/2455** (2021.05 - EP); **B65H 75/30** (2013.01 - EP); **B65H 2301/413243** (2013.01 - EP); **B65H 2301/41346** (2013.01 - EP); **B65H 2301/41372** (2013.01 - EP); **B65H 2301/41447** (2013.01 - EP US); **B65H 2301/41468** (2013.01 - EP); **B65H 2301/41822** (2013.01 - EP US); **B65H 2403/73** (2013.01 - EP); **B65H 2404/261** (2013.01 - EP); **B65H 2408/235** (2013.01 - EP US); **B65H 2701/1924** (2013.01 - EP)

Citation (search report)  
• [XA] US 4327877 A 19820504 - PERINI FABIO  
• [A] US 4856725 A 19890815 - BRADLEY JOHN J [US]  
• See also references of WO 2019108480A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 11046540 B2 20210629; US 2019161302 A1 20190530**; BR 112020010809 A2 20201110; BR 112021009923 A2 20210817; CA 3082486 A1 20190606; CA 3116140 A1 20200604; CL 2021001169 A1 20211015; CO 2021006813 A2 20210610; EP 3717387 A1 20201007; EP 3717387 A4 20220112; EP 3717387 B1 20221228; EP 3887297 A1 20211006; EP 3887297 A4 20221026; EP 3887297 B1 20240619; EP 3887297 C0 20240619; EP 4116245 A1 20230111; EP 4431424 A1 20240918; ES 2940654 T3 20230510; FI 3717387 T3 20230404; HU E061486 T2 20230728; JP 2021504266 A 20210215; JP 2022509583 A 20220121; JP 7234234 B2 20230307; JP 7303295 B2 20230704; MX 2020005199 A 20201203; MX 2021006137 A 20210623; PL 3717387 T3 20230508; PT 3717387 T 20230217; US 11912519 B2 20240227; US 2021206592 A1 20210708; US 2024150145 A1 20240509; WO 2019108480 A1 20190606; WO 2020112167 A1 20200604

DOCDB simple family (application)  
**US 201816201034 A 20181127**; BR 112020010809 A 20181126; BR 112021009923 A 20190520; CA 3082486 A 20181126; CA 3116140 A 20190520; CL 2021001169 A 20210504; CO 2021006813 A 20210524; EP 18883038 A 20181126; EP 19889086 A 20190520; EP 22189396 A 20181126; EP 24174778 A 20190520; ES 18883038 T 20181126; FI 18883038 T 20181126; HU E18883038 A 20181126; JP 2020529310 A 20181126; JP 2021523885 A 20190520; MX 2020005199 A 20181126; MX 2021006137 A 20190520; PL 18883038 T 20181126; PT 18883038 T 20181126; US 2018062462 W 20181126; US 2019033071 W 20190520; US 202117210869 A 20210324; US 202418405169 A 20240105